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LOGISTICAL DEVELOPMENTS IN THE PANHANDLES OF
NORTH VIETNAM AND LAOS
JULY 1969

Project No. 54.5285

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OSD REVIEW COMPLETED

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Introduction

This is one in a series of monthly reports that assesses the level of Communist logistical activity in the southern part of North Vietnam and in the Panhandle of Laos. All sources are used in the analysis and particular emphasis is given to determining the flow of supplies into and through southern Laos to enemy forces in South Vietnam.

North Vietnam

Logistical activity in the lower panhandle of North Vietnam and on the main access routes into southern Laos remained at a relatively low level during July, reflecting the reduced amount of supplies being moved by the Communists into the Laotian Panhandle where the wet season is in full progress. Aerial photography* indicated only light truck traffic on Routes 15 and 137 which lead to the Mu Gia and Ban Karai Passes, respectively. Traffic on the southernmost logistical corridor (Routes 1036, 1039, and 1032) near the DMZ also was light. Increasingly during the month, the North Vietnamese were observed offloading supply trucks north of the DMZ and using a combination of waterways and trails to move supplies southwest toward Laos; however, the total tonnage being transported by these means probably was small compared to that moved on

* Weather conditions in North Vietnam's Panhandle were slightly improved in July but remained generally poor. A total of 184 Tactical Air reconnaissance flights were flown in July compared with 210 in June and 271 in May.

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the regular truck routes.

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photography

showed that substantial repairs were being made to the runway at Vinh airfield. All the craters have been filled and bulldozers, steam shovels, and other equipment were working on the runway. A new POL storage area also is under construction at the airfield. Despite this activity, the North Vietnamese apparently have not placed a particularly high priority on the restoration of this airfield because most of the repairs underway were started soon after the bombing halt in November 1968 and then were abandoned until July.

25X1

No new extensions to the petroleum pipeline which runs from the Vinh area in North Vietnam into Laos have been observed, although additional pumping facilities have been added in North Vietnam (bringing the total number of pumping facilities to 35) and an expansion to the POL storage area at Vinh is underway.

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Laos

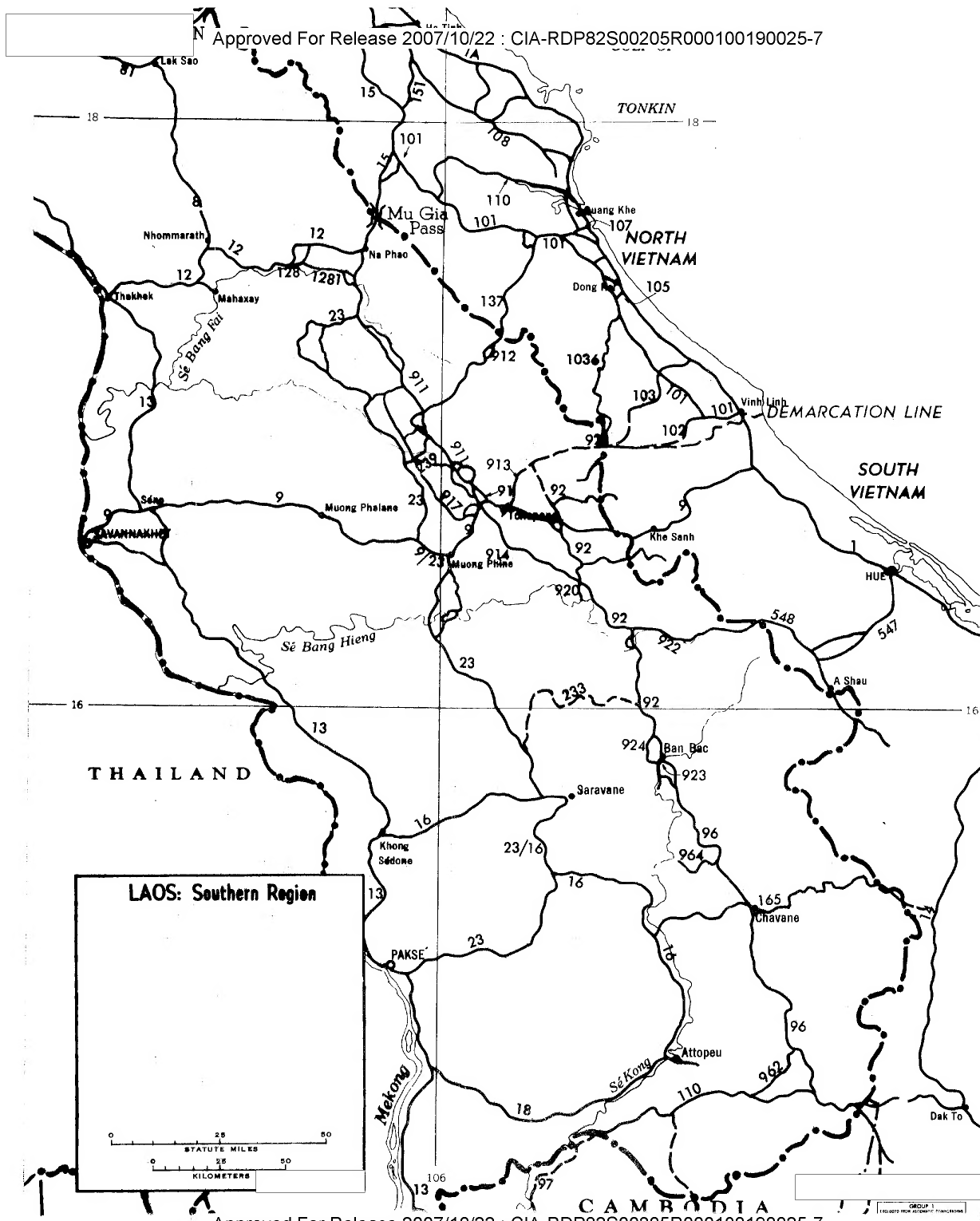
During July, traffic moving into and transiting the Laotian Panhandle continued to be affected by worsened weather conditions and a high level of air attacks. Rainfall during the month was unusually heavy amounting to approximately 36 inches, more than double the amount in July 1968, and 63 percent above the normal mean average for the month. Nevertheless, the estimated tonnage of supplies moved into southern Laos was still about half the monthly average for the 1968-69 dry season (October through May) and was slightly above that brought in during July 1968* (see Appendix A, Table 3).

a. Access Routes

Despite extremely adverse weather conditions the Communists continued to send substantial numbers of trucks south from North Vietnam through the main Passes into the Panhandle. Roadwatch reporting indicated that, although traffic was down, about 12 trucks a day moved south

* The increase in estimated tonnage moved into the Panhandle during July of this year compared with July 1968 results from the use of a heavier load factor for trucks entering or transiting Southern Laos.

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through Mu Gia during the month. This was well below the 21 a day in June, but about the same as the 1968 wet season average (see Appendix A, Table 4).

Some of the inbound traffic may have been moving into storage areas not far from the Border because all sources indicated only very light traffic within the Panhandle. Pilot sightings of traffic on the roads immediately south of both Mu Gia and Ban Karai Passes fell to about 2 trucks a day in July compared to about 13 in June. Sensor detections of trucks on the same routes fell to minimal levels, e.g., a total of 9 trucks for the entire month on roads south of Mu Gia. On the northernmost access route through Nape Pass (Route 8) pilot sightings indicated practically no traffic and aerial photography showed that the northern portions of the road were falling into disuse. Pilot sightings of trucks on the southernmost access routes near the DMZ also were negligible, although the pilots did report considerable waterborne logistic activity on tributaries of the Se Bang Hieng river just west of the DMZ.

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b. Within the Panhandle

truck traffic within the Panhandle fell to a low level during July. Pilot reports showed an 85 percent drop in truck sightings compared to June. Total sightings for the month (279 trucks) were the lowest since October 1967, and were less than 10 percent

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of the July 1968 level, although the number of attack sorties was four times the level of a year ago.* The higher sortie rate may have had little relevance to numbers of trucks sighted, however, because of the extremely poor weather conditions which significantly reduced visibility. For example, about half of the sorties during the month were flown blind, i.e., were directed by radar. Sensor detected traffic also was down sharply during July with total detections (434 trucks) amounting to about 10 percent of the June total. In this connection, however, the number of active sensors in the Panhandle declined from 469 on 1 July to about 330 by 31 July which may have biased downward the number of de-

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In view of the continued substantial tonnage known to have been moving into Southern Laos during the month, the low level of detected traffic within the Panhandle is difficult to explain. It is possible the enemy has been moving supplies into Laos and building up stockpiles just south of the Passes. This would seem to be an illogical move, however, when the supplies could be kept in North Vietnam safe from air attack. The probability seems greater that supplies have continued to

* See Appendix B for a brief assessment of the results of air attacks on fixed targets in the Laotian Panhandle.

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filter south through the system by truck undetected, through increased use of waterways, and by portering.

Although many of the roads have been turned into quagmires as a result of heavy rains and continued intensive bombing, the North Vietnamese have taken extensive measures to keep the logistic system in the Panhandle functioning this rainy season as they did last year. Many road sections have been corduroyed, road banks and fords reinforced, and numerous piles of aggregate have been strategically placed alongside the major roadways.

During the month, trucks were detected by pilots and sensors mainly in the central part of the Panhandle from the Tchepone area to immediately south of Route 922. Light traffic continued on the main exit routes into South Vietnam. Pilot reports (1 truck a day) and sensors (3 trucks a day) indicated that small amounts of supplies were being moved on Route 922 into the A Shau Valley. Sensors also indicated light traffic on Route 165/966 east of Chavane and roadwatch teams reported some trucks moving on Route 110.

Of some significance, has been the enemy's increased use of waterways to move supplies this wet season. One of the most important of these water routes is the Se Bang Hieng river which flows in a westerly direction from the DMZ through the Tchepone area to the Mekong River. Another is the Se Kong River which flows southward from the vicinity of Ban Bac bypassing portions of Routes 92 and 96. Pilot reports of watercraft sightings were up sharply during June and July of this year compared with the same months in 1968. Pilots also have reported increased

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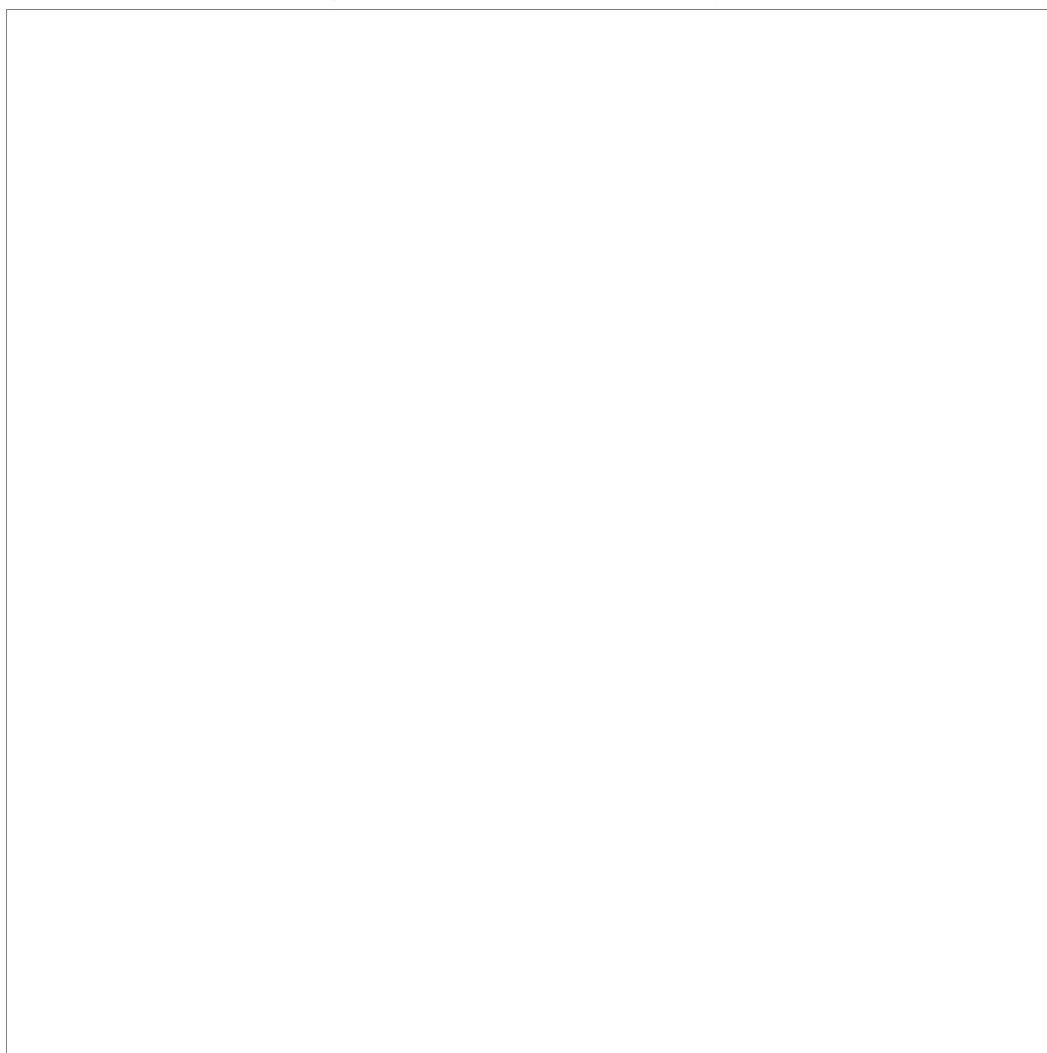
use both of motorized watercraft and "free-floating" of supplies.

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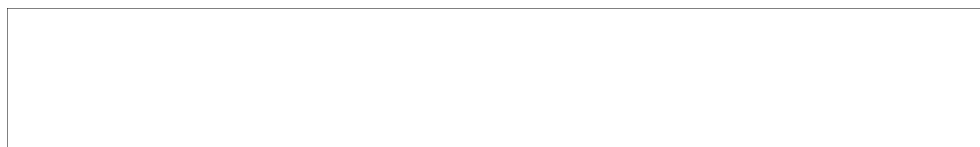
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Summary

During July, much heavier than normal Southwest Monsoon rains created

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difficulties for the enemy in the operation of his logistic system in Southern Laos. The effects of the adverse weather were compounded by continued air strikes. Nevertheless, the Communists continued to move a substantial quantity of supplies into the Panhandle. Estimated tonnage moved in during the month was slightly above that for the same month a year ago and amounted to about one half the monthly average of the 1968-69 dry season.

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In the lower Panhandle of North Vietnam, the overall level of logistic activity (including traffic on the main access routes leading to Southern Laos) remained at a relatively low level during July, reflecting the reduced amount of supplies being moved by the Communists into the Laotian Panhandle.

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APPENDIX A

Table 3

Estimated Average Monthly Tonnage of Supplies Moved from
North Vietnam into the Laotian Panhandle over Roads and Trails, a/
October 1967 - July 1969

	<u>1967-68</u>	<u>1968-69 b/ c/</u>
Dry Season, October through May (Daily Average)	5,490 (180)	6,660 (220)
	<u>1968</u>	<u>1969 d/</u>
Wet Season, June through September (Daily Average)	3,080 (100)	- -
June	3,990	5,700
July	3,290	3,440
August	2,260	-
September	2,790	-

- a. show
 tonnages before any deductions for losses. The numbers are rounded to three significant digits.
- b. Based on an average of 3.8 tons per truck.
- c. Because of the probable opening of a POL pipeline in Laos near Route 15 during the first quarter of 1969, the proportions of the total tonnage entering southern Laos consisting of goods other than POL probably increased.
- d. Through July of the current wet season the daily average was 150 tons compared to 120 tons daily during the comparable period of the preceding wet season.

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APPENDIX A

Table 4

Truck Statistics - Laotian Panhandle
Daily Averages

	<u>1969</u> <u>July</u>	<u>1968</u> <u>July</u>	<u>1968</u> <u>Wet Season a/</u>	<u>1968-69</u> <u>Dry Season b/</u>
<u>Pilot Reports</u>				
Sighted	9	114	65	230
Destroyed	1	13	8	23
Damaged	1	1	1	9
Attack Sorties <u>c/</u>	268	66	64	374

Sensor-Detected
Truck Traffic

14	NA	NA	707 <u>d/</u>
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- a. June through September, 1968.
b. October 1968 - May 1969.
c. Sorties by US aircraft, including B-52's against all types of targets.
d. Data are for the period 30 October 1968 - 31 May 1969.

APPENDIX B

Results of Air Attack on Fixed Targets
in the Laotian Panhandle

Predictably, reports of damage to the fixed target system continued to decline during July, primarily as a consequence of the extremely poor weather dominating the Panhandle area. Precipitation for the past month was abnormally high, limiting both enemy logistic activity and allied air attacks and reconnaissance. Reports of damage and the sortie level for July jointly fell approximately twenty percent below the June figures, and were well below the monthly average since last November (see Table below). This downward trend probably will continue through at least September.

In an effort to compound the affects heavy rains were having on the enemy's logistic system, planes continued to bomb vital road segments, water crossing facilities and transshipment and storage sites. Enemy bunkers and structures were also prime targets during July reflecting efforts to deny the VC/NVA permanent shelter and protection for their troops and supplies.

B-52 attacks against targets within Laos this past month were nearly double the June figure, with more than 9 percent of the sorties hitting enemy storage areas, truck parks, and troop staging areas. Although their affect is not readily measurable (see Table footnote), a number of attacks caused large multiple secondary explosions indicating probable destruction of substantial munition and fuel stockpiles.

APPENDIX B

Fixed Targets Destroyed and Damaged by Armed Reconnaissance
Attacks in the Steel Tiger Area of the Laotian Panhandle *

<u>Target</u>	<u>July</u>	<u>June</u>	<u>Monthly Average Since 1 Nov 1968</u>
Road Segments	251	366	594
Truck Parks	76	104	207
Watercrossing Facilities	64	89	79
AAA/Auto. Weapons Sites	18	71	289
Storage Facilities/Military Complexes	243	360	338
Bunkers/Structures	395	334	231
Bivouac Areas	25	23	22
Total	1072	1347	1760
Armed Reconnaissance Sorties	7890	9690	11,100
B-52 Sorties **	410	260	550

* Data compiled from the NMCC Daily Operational Summary and is considered preliminary and subject to revision.

** Results of B-52 attacks are not reflected in the above table. BDA data for B-52 strikes is limited only to reports of resulting secondary explosions and occasional post-strike photography.